

Remarks

The above Amendments and these Remarks are in reply to the Office Action mailed April 19, 2010.

I. Summary of Examiner's Rejections

Prior to the Office Action mailed April 19, 2010, Claims 1, 4-9, 11-15, 30, 33-38, 40-44 and 50-52 were pending in the Application. In the Office Action, Claims 1, 4-9, 11-15, 30, 33-38, 40-44, and 50-52 were rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1, 4-9, 11-15, 30, 33-38, 40-44, and 50-52 were rejected under 35 U.S.C. 103(a) as being unpatentable over Anuff et al. (U.S. Patent No. 6,327,628 B1 hereinafter Anuff) in view of Broadbent et al. (U.S. Publication No. 2001/0037287 A1 hereinafter Broadbent).

II. Summary of Applicant's Amendment

The present Reply amends Claims 1, 4-5, 7-9, 11-15, 30, 50-51, and adds new claim 53, leaving for the Examiner's present consideration Claims 1, 4-9, 11-15, 30, 33-38, 40-44 and 50-53.

III. Claim Rejections under 35 U.S.C. § 112

In the Office Action, Claims 1, 4-9, 11-15, 30, 33-38, 40-44, and 50-52 were rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicant respectfully submits that the claims have been amended to comply with the statutory requirement under 35 U.S.C. 112. Accordingly, reconsideration thereof is respectfully requested.

IV. Claim Rejections under 35 U.S.C. § 103(a)

Claims 1, 4-9, 11-15, 30, 33-38, 40-44, and 50-52 were rejected under 35 U.S.C. 103(a) as being unpatentable over Anuff in view of Broadbent.

Claim 1

Claim 1 has been amended to recite the following:

1. *(Currently Amended) A method for supporting a portal application, comprising:*
 - accepting a request, at a container on one or more web servers, from a user that interacts with a graphical user interface (GUI) of a web application at a client side;*
 - mapping the request to a control tree factory, wherein the control tree factory is operable to*
 - obtain an XML stream from different sources;*
 - parse the XML stream into a Document Object Model (DOM) tree; and*
 - generate a control tree in the container from the DOM tree based on the request, wherein the control tree is a logical representation of the graphical user interface (GUI), wherein the control tree includes a set of controls, each of which controls represents at least one of a graphical element and a functional element in the GUI;*
 - associating at least one control in the control tree with another control in the control tree using an event notification mechanism, wherein the event notification mechanism allows the at least one control to register with the another control in the control tree for events that the another control raises;*
 - advancing the control tree through at least one lifecycle stage in a sequence of one or more lifecycles, wherein the at least one control in the control tree operates to be updated once the at least one control receives an event notification from the another control in the control tree through the event notification mechanism;*
 - aggregating the output of each control of the set of controls in the control tree to produce a response based on the request; and*
 - providing the response to the GUI.*

Anuff discloses a portal server that represents an HTML page that comprises a plurality of modules formatted in a pre-determined layout (Abstract). Furthermore, Anuff discloses an object model that supports an object-oriented system such as a portal server (Fig 4, Lines 60-64).

As stated in the pending office action, Anuff does not explicitly teach that at least one control in the control tree operates to interact with another control in the control tree through an event notification mechanism.

The examiner further states that the use of events in object oriented programming; communication/cooperation was well known in the art at the time of the invention.

However, as embodied in Claim 1 as currently amended, the event notification mechanism allows at least one control to register with another control in the control tree for events that the another control raises; and the at least one control in the control tree operates to be updated once receiving an event notification from the another control in the control tree through the event notification mechanism.

Applicant respectfully submits that there is no teaching in Anuff and in the art at the time of the invention of the above features.

Furthermore, Broadbent discloses that the XML stream is parsed by the JAXP parser into a DOM internal tree (Paragraph [0317]).

However, Applicant respectfully submits that there is no indication in Broadbent that a control tree, which is a logical representation of a graphical user interface (GUI), can be generated from the DOM tree that is constructed from a XML stream obtained from different sources.

In view of the above comments, Applicant respectfully submits that Claim 1, as amended, is neither anticipated by, nor obvious in view of the cited references, and reconsideration thereof is respectfully requested.

Claims 16 and 30

Claims 16 and 30, while independently patentable, recite limitations that, similarly to Claim 1, are not disclosed nor rendered obvious by the cited references. Reconsideration thereof is respectfully requested.

Claims 4-9, 11-15, 33-38, 40-44 and 50-52

Claims 4-9, 11-15, 33-38, 40-44 and 50-52 are not addressed separately, but it is respectfully submitted that these claims are allowable as depending from an allowable independent claim, and further in view of the comments provided above.

It is also submitted that these claims also add their own limitations which render them patentable in their own right. Applicant respectfully reserves the right to argue these limitations should it become necessary in the future.

V. Additional Amendments

Claim 53 has been newly added by the present Reply. Subject to the approval of the Examiner, Applicant respectfully requests that new Claim 53 be included in the Application and considered therewith.

VI. Conclusion

In view of the above amendments and remarks, it is respectfully submitted that all of the claims now pending in the subject patent application should be allowable, and reconsideration thereof is respectfully requested. The Examiner is respectfully requested to telephone the undersigned if he can assist in any way in expediting issuance of a patent.

The Commissioner is authorized to charge any underpayment or credit any overpayment to Deposit Account No. 06-1325 for any matter in connection with this response, including any fee for extension of time, which may be required.

Respectfully submitted,

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